

Serial No. **09/741,411**

A. Partyka 20

**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

Patent Application

Inventor: Andrzej Partyka
Case: 20
Serial No.: 09/741,411
Filing Date: December 20, 2000
Examiner: Khanh C. Tran
Group Art Unit: 2631

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Patent and Trademark Office via fax to number 703-872-9314 to the attention of Examiner Khanh C. Tran on October 19, 2004.

Name of person signing this certificate: Andrzej Partyka

Signature 

Title: Telometry System with Authentication

COMMISSIONER FOR PATENTS
WASHINGTON, D.C.

SIR:

AMENDMENT

In response to Office action mailed on May 19, 2004, please following papers relating to the above-named application for patent:

1. Transmittal Letter with Certificate of Mailing (this Letter) — 1 Page
2. Petition for Extension of Time PTO/SB/22 x2 — 1 Page
3. Amendment with Certificate of Mailing — 14 Pages

Fee Is Due

Hereby, the Commissioner is authorized to charge **Andrzej Partyka Deposit Account No. 50-1093** the required fee of **\$215**, fee code 2252 (small entity) for the Petition for Extension of Time.

No other fee is due, however in the event of any non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Andrzej Partyka Deposit Account No. 50-1093** as required to correct the error.

Pursuant to 37 C.F.R. 1.136(a)(3), please treat this and any concurrent or future reply in this application that requires a petition for an extension of time for its timely submission as incorporating a petition for extension of time for the appropriate length of time.

Respectfully,

By 
Andrzej Partyka

Date: Oct 19, 2004
370 Finch Lane
Bedminster, NJ 07921
908-781-1902

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Title: Telemetry System with Authentication

ASSISTANT COMMISSIONER FOR PATENTS
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SIR:

AMENDMENT

In response to Office action mailed on May 19, 2004, please amend the above-identified application as follows, and find the following claims for examination.

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Title: Telemetry System with AuthenticationASSISTANT COMMISSIONER FOR PATENTS
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AMENDMENT

In response to Office action mailed on May 19, 2004, please amend the above-identified application as follows, and find the following claims for examination.

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- 1 of 1 -

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Claim Amendments

Amend claims 1-20 as follows:

- 1 1. (Currently Amended) A method of authentication in a telemetry system, said method
2 comprising:
3 transmitting, by each of a plurality of transmitters, transmissions intermittently at time intervals
4 and at a plurality of frequencies independently of any receiver of said transmissions and independently of
5 any other of said plurality of transmitters, and
6 holding, by a receiver, simultaneously for each of said plurality of transmitters, data indicative of
7 an expected frequency and an expected time of at least one future transmission, and
8 discriminating transmissions based at least in part on at least one of (a) an expected and an actual
9 transmission frequency and (b) an expected and an actual transmission time,
10 authenticating transmissions based on an expected and actual transmission frequency and time.
- 1 2. (Currently Amended) The method of claim 1 wherein said receiver determines authenticity of
2 transmissions based at least in part on said discriminating, said expected transmission frequency
3 comprises estimate for transmitter reference frequency drift.
- 1 3. (Currently Amended) The method of claim 1 wherein each of said plurality of transmitters
2 encrypts data for transmission, and said receiver decrypts received data, said expected transmission time
3 comprises estimate for transmitter time reference drift.
- 1 4. (Currently Amended) The method of claim 3 wherein each of said plurality of transmitters
2 changes encryption key for each of a plurality of transmissions, controls transmission frequency and time
3 between transmissions based on frequency-time pattern that is different for each of said plurality of
4 transmitters.
- 1 5. (Currently Amended) The method of claim 4 wherein, for each transmitter, said
2 encryption key is determined based on at least one of (a) frequency-hopping and (b) time-hopping of said
3 each transmitter, each of said plurality of transmitters is for varying encryption key between
4 transmissions.
- 1 6. (Currently Amended) The method of claim 2 wherein said transmitter performs modification
2 of at least a portion of said data for transmission with a modifier that is varied for each of a plurality of

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